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A. D. Kulkarni, P. Byars

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Douglas A. Aberdeen, Jonathan Baxter, Robert Edwards

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Radek Grzeszczuk, Demetri Terzopoulos, Geoffrey Hinton

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C.-J. Wang, C.-H. Wu, S. Sivasindaram

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Cathy H. Wu, Adisorn Epidemiology, Tzx-Chung Chang

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D. J. Littlewood, P. A. Drakopoulos, G. Subbarayan

April 2002 ACM Transactions on Graphics (TOG), Volume 21 Issue 2

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Color management for the printing of digital images is a challenging task, due to the fact that the presence of redundant solutions for print devices with more than three colors is common. Converting image data to printer-specific format are typically designed to achieve a single colorimetric accuracy. In the present paper we present two CIELAB to CMYK color conversion methods based on general Pareto-optimal formulations. ...

Keywords: Artificial Neural Networks, CMYK, Color Conversion, Color Fidelity, Color Management, Color Space Transformation, Optimization, Pareto-optimization, Tetrahedron

10 Generalized additive neural networks

William J. E. Potts

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Keywords: additive models, partial residuals, predictive modeling

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Cathy H. Wu, Jerry W. McLarty, George M. Whitson

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12 A training algorithm for optimal margin classifiers

Bernhard E. Boser, Isabelle M. Guyon, Vladimir N. Vapnik

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Ted Frison, S. Walt McCandless, Robert Renze

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14 Combining multi-visual features for efficient indexing in a large image database

Anne H. H. Ngu, Quan Z. Sheng, Du Q. Huynh, Ron Lei

April 2001 The VLDB Journal — The International Journal on Very Large Databases

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Keywords: High-dimensional indexing, Image retrieval, Neural network**15 Audio-visual speech recognition using red exclusion and neural networks**

Trent W. Lewis, David M. W. Powers

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Computer science - Volume 4, Volume 24 Issue 1

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Automatic speech recognition (ASR) performs well under restricted conditions and environments. Audio-Visual Speech Recognition (AVSR) combats this by incorporating visual information into the speech recognition. This paper briefly reviews the contribution of psycholinguistics to AVSR. An important first step in AVSR is that of feature extraction from the audio signal. The feature extraction process developed by the authors is briefly present ...

Keywords: audio-visual speech recognition, neural networks, sensor fusion

16 A QoS-Provisioning neural fuzzy connection admission controller for multinet

Ray-Guang Cheng, Chung-Ju Chang, Li-Fong Lin

February 1999

IEEE/ACM Transactions on Networking (TON), Volume 7 Issue 1

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17 Technique for automatically correcting words in text

Karen Kukich

December 1992

ACM Computing Surveys (CSUR), Volume 24 Issue 4

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Research aimed at correcting words in text has focused on three progressively more difficult problems: (1) word detection; (2) isolated-word error correction; and (3) context-dependent word recognition. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed. In response to the second problem, a variety of error detection and correction techniques have been developed. In response to the third problem, statistical language models have been used to predict the most likely word given a set of possible words. These techniques have been applied to a variety of applications, including optical character recognition, natural-language-processing models, neural net classifiers, spell checkers, and word recognition and correction systems.

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent word detection, natural-language-processing models, neural net classifiers, spell checkers, statistical language models, word recognition and correction

18 Analysis of a biologically motivated neural network for character recognition

M. D. Garris, R. A. Wilkinson, C. L. Wilson

May 1991 Proceedings of the conference on Analysis of neural network applications

Full text available:  pdf(1.56 MB)

Additional Information: full citation, references, index terms

19 Session 5A: Artificial intelligence: Artificial neural network-based image pattern recognition

Hong Zhang, Jian Guan, Gwong C. Sun

April 1992 Proceedings of the 30th annual Southeast regional conference

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Additional Information: full citation, abstract, references, citation analysis

This paper addresses the use of a multi-layer fully-connected perceptron neural network for pattern recognition. The input of the neural network is a set of seven standardized invariant features extracted from the input image. The standardization procedure and recognition procedure. This standardization results in significant improvements in the performance of the neural network. The neural network in this paper can recognize the shape of patterns regardless of their orientation and size. Images are captured and transformed into feature vectors ...

Keywords: back propagation, neural network, pattern recognition, standardization, invariant features

20 The exploration of legal text corpora with hierarchical neural networks: a generalization of the Radon transform

Dieter Merkl, Erich Schweighofer

June 1997 Proceedings of the sixth international conference on Artificial intelligence and law

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